

REPORT

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NO. OF PAGES 15

NO. OF ENCLS.
(LISTED BELOW)

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THIS IS UNEVALUATED INFORMATION

Attached is [redacted] forwarded as received.

Comment: Throughout this report for Kuybishev read Kuybyshev.

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TOPIC

Institute Headed by Manfred von Ardenne near Sinop

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EVALUATION

PLACE OBTAINED

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DATE OF CONTENT

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DATE OBTAINED

DATE PREPARED 13 October 1954

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REFERENCES

PAGES 2 ENCLOSURES (NO. & TYPE)

REMARKS

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1. Institute "A" which was headed by Manfred von Ardenne was located near Sinop on the Black Sea.
2. In 1950, T-shaped pipe assemblies were processed for use in Building D which housed a baby magnet. The assembly consisted of copper sheet about 5 mm thick, about 60 cm long and a diameter of 25 - 30 cm. The three ends of the tube were fitted with flanges which were hard-soldered. The flanges had holes for screws. In 1948, five units of these T-shaped tubes were manufactured. No information was available on the purpose of these workpieces.
3. In 1947, cylinders of copper sheet were manufactured, allegedly for vacuum purposes, in Building D. The bottle-shaped cylinder was 140 cm long and had diameters of 21 and 17 cm at its two ends. The cylinder had a wall thickness of 5 mm. Five such cylinders were manufactured.
4. A device manufactured at the plumber's shop of the institute looked like the cylinder of a bath stove. The cylinder had a diameter of 30 - 35 cm, a height of about 200 cm and rested on a frame. The top of the standing cylinder was fitted with a nozzle. Later, three or five nozzles were fitted to the cylinders. The cylinders fitted with five nozzles were not used at the institute and were possibly shipped to Kuybishev. The upper section of the cylinder housed coils of electric wire which had a diameter of 0.1 mm. The section of the cylinder under the coils was insulated with asbestos. This insulated section was fitted with an inspection glass under which there was an opening or tube through which gas was fed into the cylinder. The section of the cylinder under the asbestos coils was provided with a shell which was 2 cm away from the cylinder. The space between the shell and the cylinder was filled with water, probably used for cooling purposes. The shell was about 50 cm high. The cylinder tapered towards the base. The cylinder had an opening covered with a lid from which the final product of the cylinder, sooty flakes, were discharged. It was believed that the cylinder was charged with liquid nickel carbonyl. It was learned that the material produced by the cylinder was used for the spraying of small tubes consisting of nickel gauze. These tubes of nickel gauze were about 70 cm high and 2 cm in diameter. The nickel gauze was allegedly delivered from the Soviet

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Zone of Germany. It was cut at the institute and electrically welded by engineer Lange.

5. Another metal assembly manufactured at the plumber's shop of the institute was made for Dr. von Ardenne. The assembly was allegedly a component part of a Van-de-Graaf generator. It had the shape of a loaf of bread and was made of copper sheet 1 mm thick. It measured about 70 x 50 x 15 cm. This assembly could not have any sharp edges or porous spots.
6. A device called "source of ions" (Ionenquelle) was seen in the workshop for applied physics headed by Willi Roggenbruck. The device was a square brass box with a side length of about 20 cm. Its walls were about 15 mm thick. Grooves were cut into the cover of the box and rubber gaskets were installed into these grooves to make the box airtight. The cover was fitted with an inspection glass. The device was manufactured for Dr. von Ardenne.
7. Tubes of aluminum were occasionally turned in Building L. The tubes were from 100 to 130 cm long and had a diameter of 60 mm. Their walls were 5/10 mm thick. These tubes were said to be used for the centrifuge in Building L.

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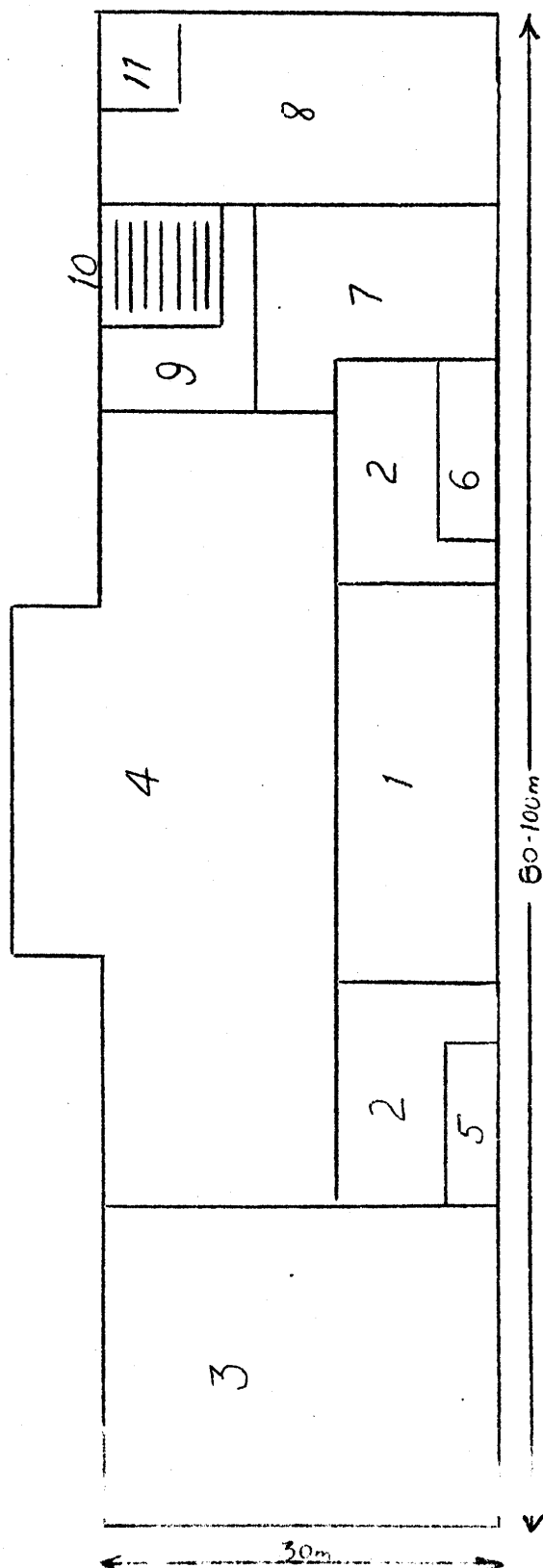
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Sketch No. 1

Layout of Basement of Main Building at Institute

not to scale



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Sketch No. 1Layout Sketch of the Basement in the Main Building of the Institute near Sinop

The building measured about 30 x 90 meters and consisted of red ashlar-stonework. The building was provided with a basement, had three stories and was located on a slope.

Legend for Sketch No. 1

1. staircase
2. grass plots
3. room not completed
4. central heating installation
5. storage of garden tools
6. storage of hydrochloric acid
7. plumber's shop
8. workshop
9. mechanical workshop
10. staircase. Under the staircase was room housing a lead drum filled with radium. The drum was occasionally inspected by Dr. Gerhot Zippe and Dr. Robert Trattner.
11. toilets

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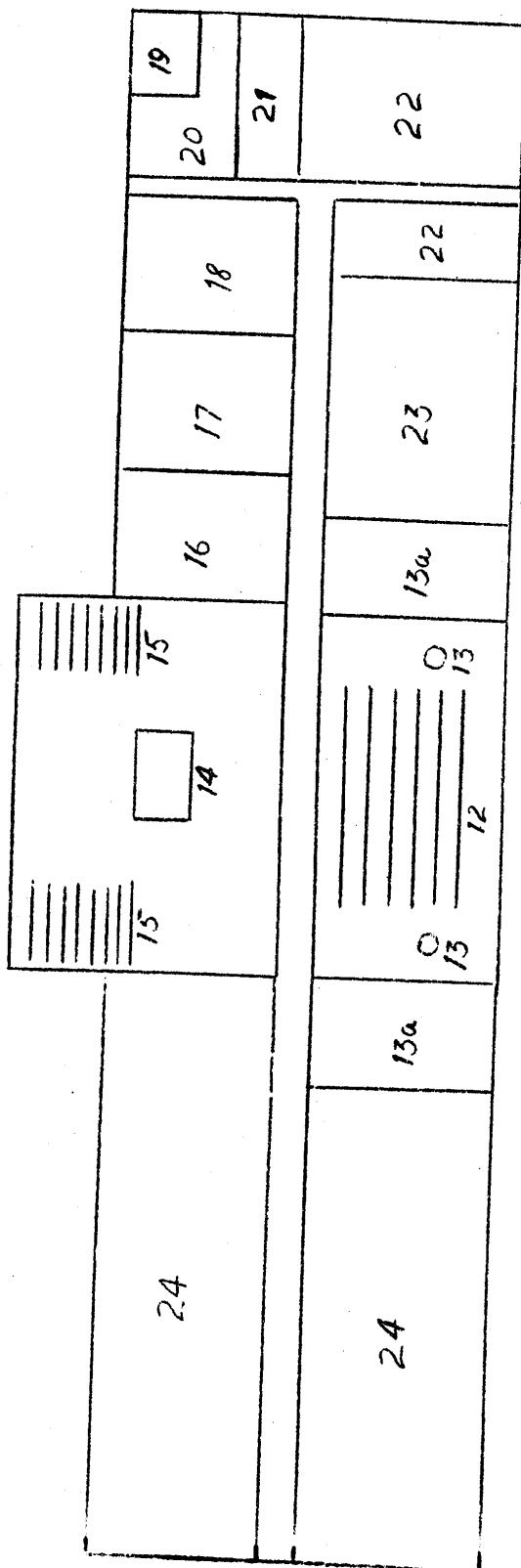
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Sketch No. 2

Layout of Ground Floor of Institute

not to scale



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Sketch No. 2Ground Floor of the Institute near SinopLegend for Sketch No. 2

- 12. outside steps
- 13. two lion monuments
- 13a. grass plots
- 14. hall with billiard table
- 15. staircase
- 16. storage of glass
- 17. carpenter's shop
- 18. office where requests for materials were turned in
- 19. toilets
- 20. work place for Martin (fnu)
- 21. workshop for precision mechanic Klein (fnu)
- 22. electric assembly shop; assigned to the shop were four electrical engineers - Ernst-Richard Apitsch, Schreiner (fnu), Hermann Gehri, Hermann Bayer, Karl Porath, and Heinz Winkler.
- 23. workshop for applied physics; assigned to this workshop were Willi Foggelbrun, Heinz Ruediger, and Kurt Jakob; the workshop was equipped with a milling machine and two lathes
- 24. biological research department, headed by Dr. Mencke who was assisted by Dr. Johannes-Emanuel Pany, Dr. Kurt Rintelen, Dr. Hohorst (fnu), Miss Renate von Ardenne and Miss Margarete Devrient. Experiments with white mice and snakes were done here.

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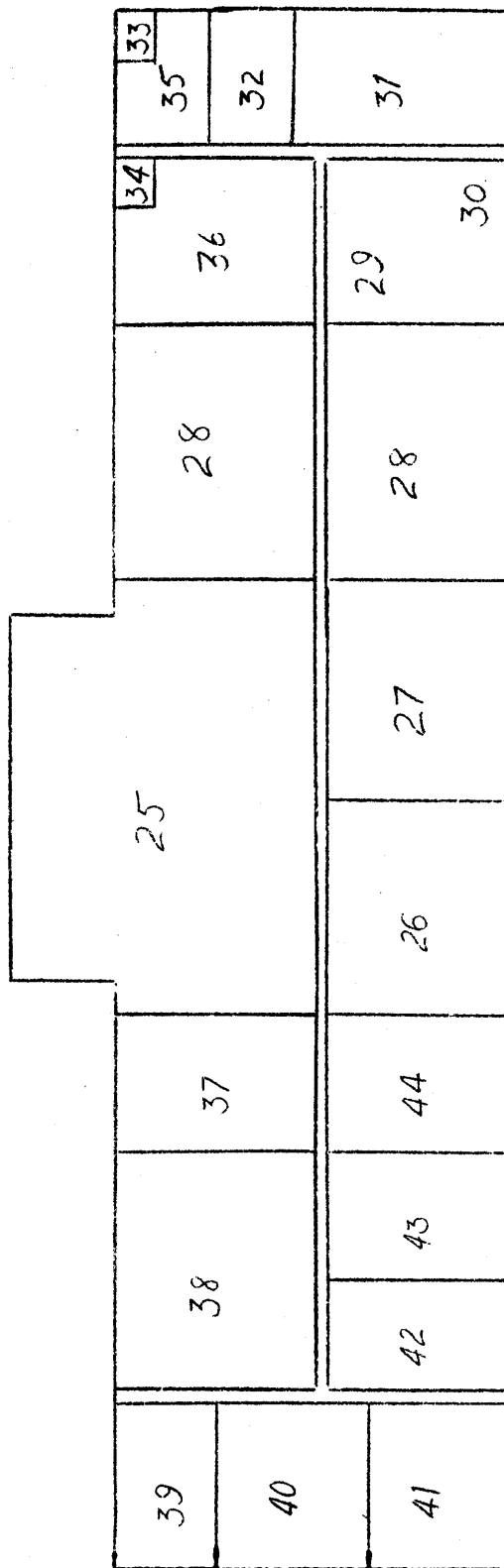
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Sketch No. 3

Sketch of Second Floor of Institute

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Sketch No. 3Layout of Second Floor of the InstituteLegend for Sketch No. 3

25. administrative office; assigned to this office were Alex A. Bergengruen, and temporarily Frau Schroeder and Frau Felicitas Jahn
26. Dr. von Ardenne's office
27. Dr. Kurt Meloun's office
28. design section; Hans Schlesing, Gerhard Jaeger and wife, and Fraeulein Mueller (fnu) worked in this section
29. design section headed by Dr. Herbert Reibedanz
30. workshpp of glass blower Erwin Becker
31. tube department; the exact designation of the department was unknown. One Schuba (fnu), a tube specialist, who arrived in the USSR from the Soviet Zone of Germany in 1947 worked in this department. Margot Koerber, a goldsmith, and Herbert Becker, and Emil Lorenz, a glass blower, Walter worked there
32. photographic department headed by Walter Hofmann
33. toilets
34. elevator
35. Dr. Wilhelm Dames' office
36. storage of glass
37. workshop of glass blower Werner Siegling
38. storage of chemicals, under the supervisor of Dr. Heinz Moehr
39. workshop of precision mechanic Wolfgang Srocke
40. designs bureau headed by Professor Peter A. Thiessen
41. office of Professor Thiessen
42. office of Martin Kreker, laboratory assistant, dentist by profession
43. laboratory of Dr. Moehr, a chemist
44. laboratory of Dr. Ziegler (Fnu)

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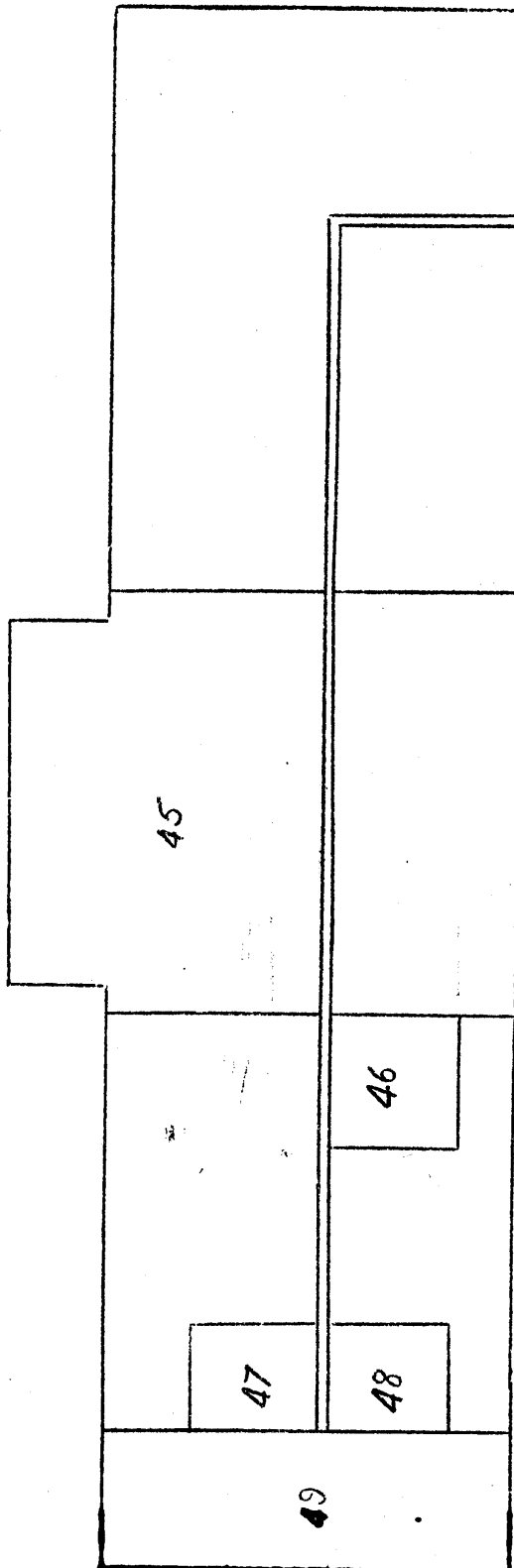
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Sketch No. 4

Layout of Third Floor of Institute

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Sketch No. 4

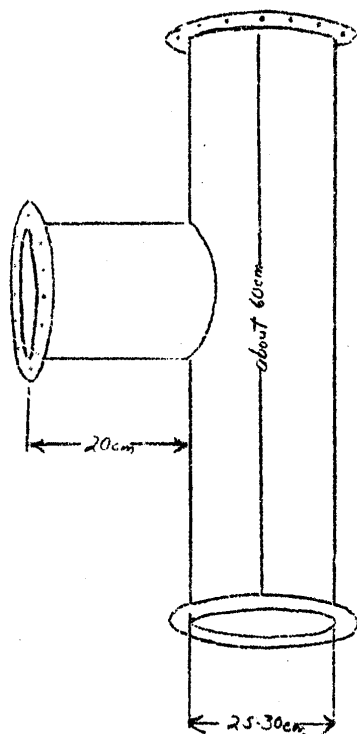
Layout of the Third Floor of the Institute

Legend for Sketch No.4

- 45. library
- 46. office occupied by Dr. Mueller (fnu), a high frequency expert
- 47. chemical workshop of Dr. Mueller
- 48. room housing the baby magnet
- 49. laboratory headed by high school teacher Gehrting. Dipl. Chem. Ziel (fnu), Keller (fnu), and Schulz (fnu) worked in this laboratory

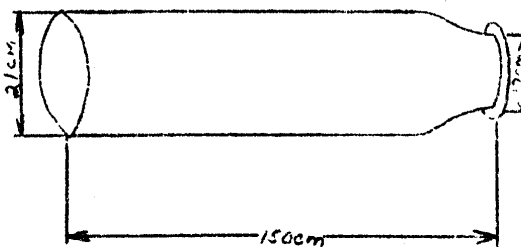
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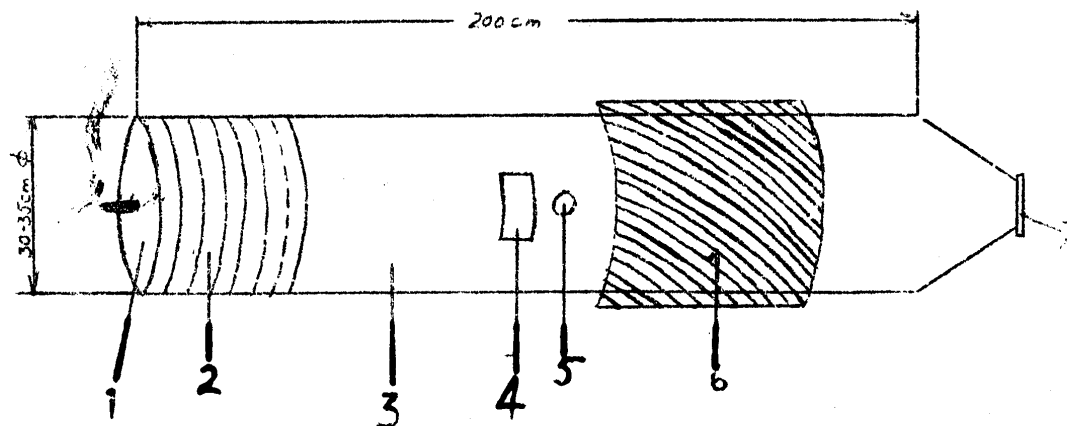
Sketch No. 5
T-Shaped Tube with Hard-soldered Flanges

not to scale



Sketch No. 6
Bottle-Shaped Cylinder

Sketch No. 7
Large Cylinder with Nozzle



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Sketch No. 7
Large Cylinder with Nozzle

Legend for Sketch No. 7

1. lid with nozzle for filling purposes
2. heating device
3. asbestos insulation
4. inspection glass
5. gas connection
6. cooling jacket
7. discharge opening

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The diagram shows a composite solid with a cylindrical body and a conical tip. The cylindrical part has a length of 70 cm and a diameter of 50 cm. The conical part has a height of 15 cm. A vertical line A-B passes through the center of the cylinder.

Box (Ionenguelle)

Sketch No. 9
Brass Cubical Box (Ionenguella)

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Sketch No. 9

Brass Cubical Box (Ionenquelle)

Legend for Sketch No. 9

1. lid with inspection glass
2. side walls
3. rubber gaskets

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